Nathan Gardner

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Objective

I am looking for full-time employment around or slightly after May 2023. I am interested in computer programming and algorithmic problem solving. I am interested in positions in which I can challenge myself and learn new skills while contributing as a member of a team.

Education

Bachelor of Science in Computer Engineering   Graduation Expected May 2023

Tennessee Technological University - Cookeville, TN

- Dean's List: All 6 semesters attended
- Organizations: Tau Beta Pi, IEEE

Engineering Experience

Meta (formerly Facebook) - Forest City, NC

Data Center Engineer Intern   May 2022 - August 2022

- Department responsible for uptime, utilization, reliability, and solving systemic technical issues within a large-scale distributed data center environment which serves roughly 3.6 billion users
- Developed automation to improve scalability and efficiency for regularly performed server repair which impacted several data center sites
- Developed hardware trouble-shooting skills on infrastructure platforms of many types (covering large scale software automation, system boot process, operating systems, hardware failure types and analysis, etc.)

Resilient Autonomous Networked Control Systems Laboratory - Cookeville, TN

Research Assistant   August 2021 - May 2022

- Team testing for vulnerabilities in autonomous vehicle control systems
- Focused on injecting faults to test current systems against false data injection attacks

Continental Tire - Mount Vernon, IL

Plant Engineering Intern   May 2021 - August 2021

Controls and Drives (Digital Services) Department

- Developed monitoring software using C# .NET core for use in manufacturing process monitoring
- Experience in development operations deployment: docker containerization of software for use on local server for 24/7 data monitoring
- Assisted in networking and programming related tasks and helped ensure the plant ran effectively

Tennessee Tech University - Cookeville, TN

Teaching Assistant, Unix Laboratory   January 2021 - May 2021

- Assisted instructor in course delivery, including topics such as BASH scripting and the Linux/Unix operating system
- Assisted students with questions on weekly Unix-based labs

Organizations

Institute of Electrical and Electronics Engineers (IEEE), TTU Chapter - Cookeville, TN

Officer, Public Relations Chair   May 2022 - Present

- Public facing officer responsible for building relationships with alumni and finding speakers for on campus IEEE sponsored events

Officer, Social Chair   May 2021 - May 2022

- Plan IEEE social events on campus and network with community members the spread the word about the IEEE mission on campus
- Foster community and involvement on campus around IEEE and the electrical and computer engineering department
- IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity

Officer, Treasurer   August 2020 - May 2021

- Responsible for all monetary bookkeeping within the club
- Meet professionals in various subfields of engineering

Active Member   August 2019 - Present

Skills

- C/C#/C++ • Python • Linux/Unix systems • Hardware Troubleshooting • Hardware Diagnostics • Servers • Git • VHDL • MATLAB •

Relevant Coursework

- Electric Circuits I & II • Electronics I • Fund. of Computer Design (Computer Architecture) • Computer Networks • Signals and Systems • Microcomputer Systems • Embedded System Design • Digital System Design • Data Structures and Algorithms • Design & Analysis of Algorithms • Calculus I & II & III • Probability and Statistics •